

SLAG PILE TAL SAMPLING PLAN
NL INDUSTRIES
PEDRICKTON, SALEM, NEW JERSEY

FEBRUARY 1991

Prepared by:

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Prepared for:

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c. -Parameter Table:

Slag Samples:

<u>PARAMETER</u>	<u># OF SAMPLES</u>	<u>SAMPLE MATRIX</u>	<u>ANALYTICAL MTD. REF.</u>	<u>SAMPLE PRESERV.</u>	<u>HOLDING TIME</u>	<u>VOLUME</u>
TAL Metals	26	Solid	sw 846	None	7 days	32 oz.

8. PROJECT FISCAL INFORMATION:

Sampling equipment and manpower shall be provided by the Technical Assistance Team (TAT) in coordination with the U.S. EPA. All manhours expended by TAT will be charged to TDD 02-9011-0014. Analysis will be accomplished through EPA/ERT.

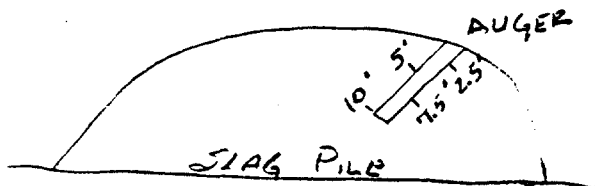
9. PROJECT ORGANIZATION AND RESPONSIBILITY:

The following is a list of key project personnel and their corresponding responsibilities:

Eugene Dominach, U.S. EPA	Project Director
Michael Mentzel, TAT II	Overall Project Coordination Sampling QC
Jim Manfreda, TAT II	Sampling Operations
Michael Edwards, TAT II	Laboratory Coordination and QC

10. SAMPLING PROCEDURES:

Sample collection will be accomplished by using a soil auger. Individual augers will be used for each slag pile. A composite will be made from each sample location. Attempts will be made to auger to 10 feet with a composite taken each 2.5 feet. Prior experience with augering has shown, however, that in certain locations 10 feet will not be attainable. In each case, accurate information will be recorded on the data sheet and field diagrams included as Appendix A.



Slag Pile

TOTAL: 34 (+2)

METHOD: Coring
COMPOSITE: 4 points per sample @ 2.5 feet
TOTAL #: ~~34~~ 26
DUPES-MS/MSD: 2 dupe + 2 MS/MSD
SAMPLE #: 001 to 036

11. SAMPLE CUSTODY PROCEDURES:

Each sample must be accurately and completely identified. It is important that any label be moisture resistant and able to withstand field conditions. Sample containers will be labeled prior to sample collection. The information on each label should include the following, but is not limited to:

- i. Date of collection
- ii. Site name
- iii. Sample identity/location
- iv. Analysis requested

EPA Chain-of-Custody will be filled out and maintained throughout the entire site activities as per TAT SOP on sample handling, Sampling Container Contract specifications, and EPA Laboratories SOP. The Chain-of-Custody form to be used lists the following information:

- i. Project name;
- ii. Sample number;
- iii. Number of sample containers;
- iv. Description of samples including specific location of sample collection;
- v. Identity of person collecting the sample;
- vi. Date and time of sample collection;
- vii. Date and time of custody transfer to laboratory (if the sample was collected by a person other than laboratory personnel);
- viii. Identity of person accepting custody (if the sample was collected by a person other than laboratory personnel);
- ix. Identity of the lab performing the analyses.

12. DOCUMENTATION, DATA REDUCTION AND REPORTING:

Field data will be entered into a bound notebook. Field notebooks, field data sheets, Chain-of-Custody forms, and laboratory analyses reports will be filed and stored per the TAT Document Control System.

16. CORRECTIVE ACTION:

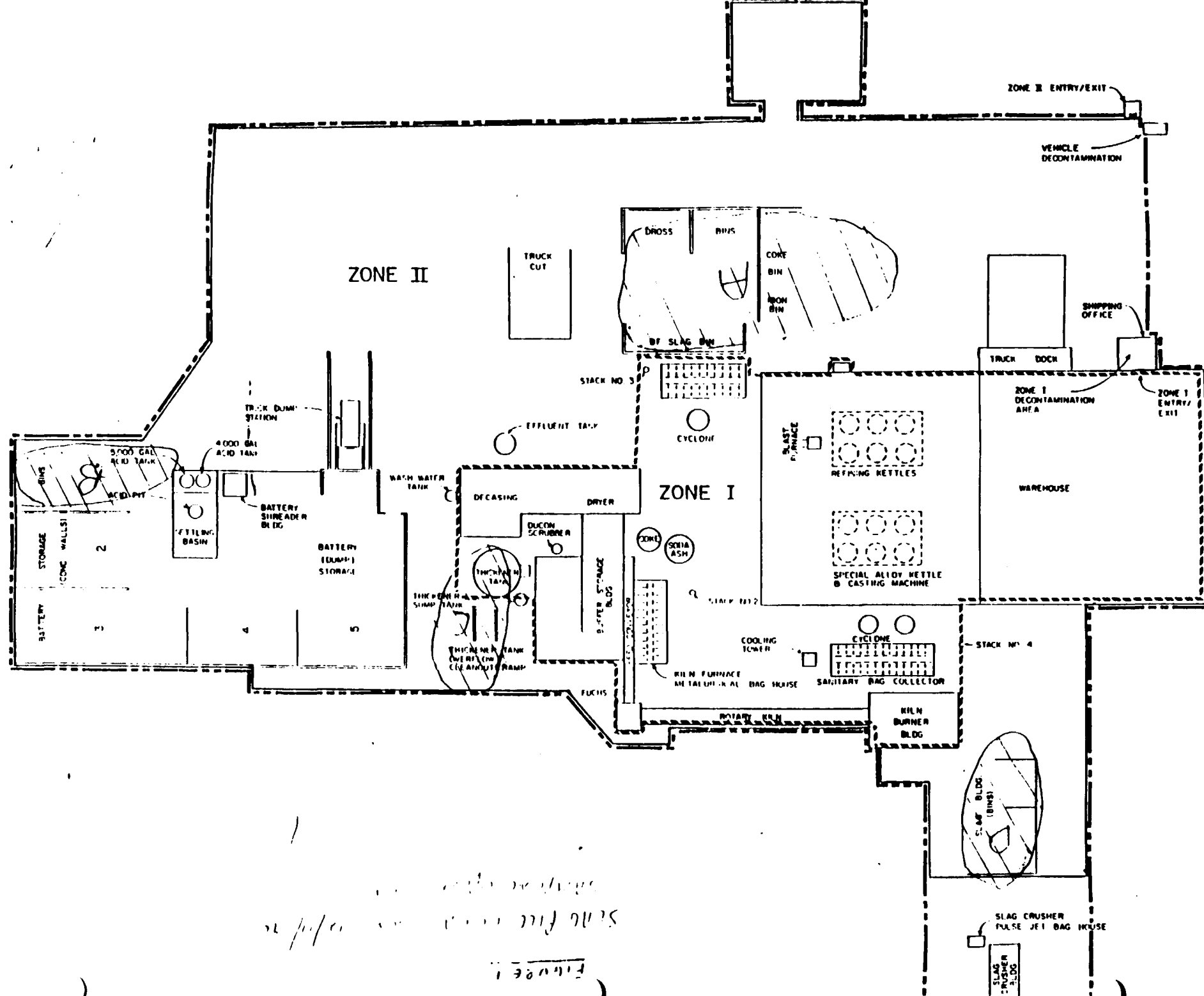
All provisions will be taken in the field and laboratory to ensure that any problems that may develop will be dealt with as quickly as possible. This will be done to ensure the continuity of the sampling program. Any deviations from this sampling plan will be noted in the final report.

17. REPORTS:

Laboratory results and all requested QA/QC information will be submitted to EPA upon completion of sample analyses. Sampling reports will be issued after receipt of laboratory results.

NL Industries Sampling
December 1990

NLD 001 0028





SHEET ____ of ____

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____ DEPT _____ DATE _____

APPROVED BY _____

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

DEPT _____ DATE _____

Pile A



Max Depth 2'

Avg 1'

Height ~8'

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

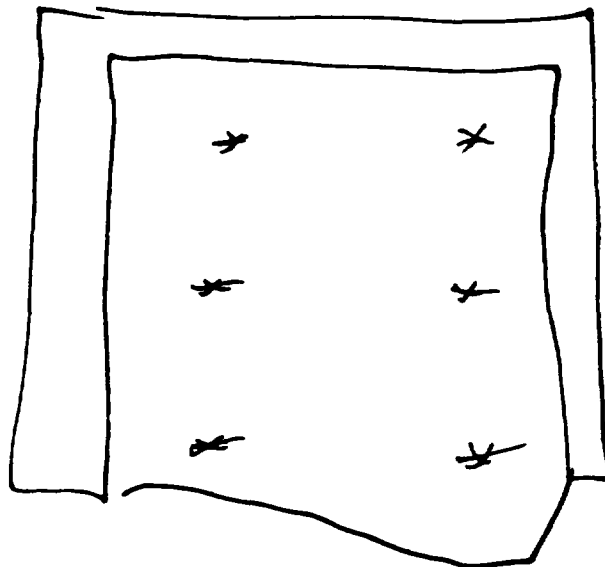
PREPARED BY _____ DEPT _____ DATE _____

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY _____	
DEPT _____	DATE _____

PILE B -



Front

Max Depth 2'

Avg 1'

Height 15-20'

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

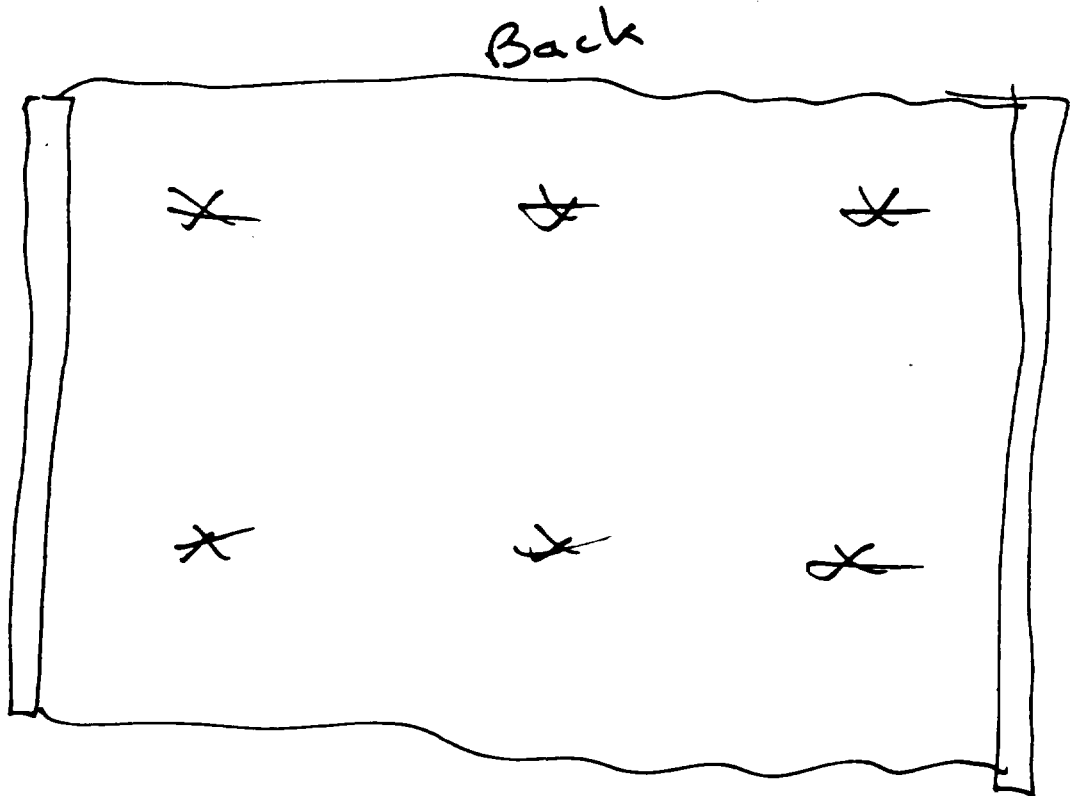
PREPARED BY _____ DEPT _____ DATE _____

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY	
DEPT _____	DATE _____

Pile C



Front

Depth Avg 2'
max 3'

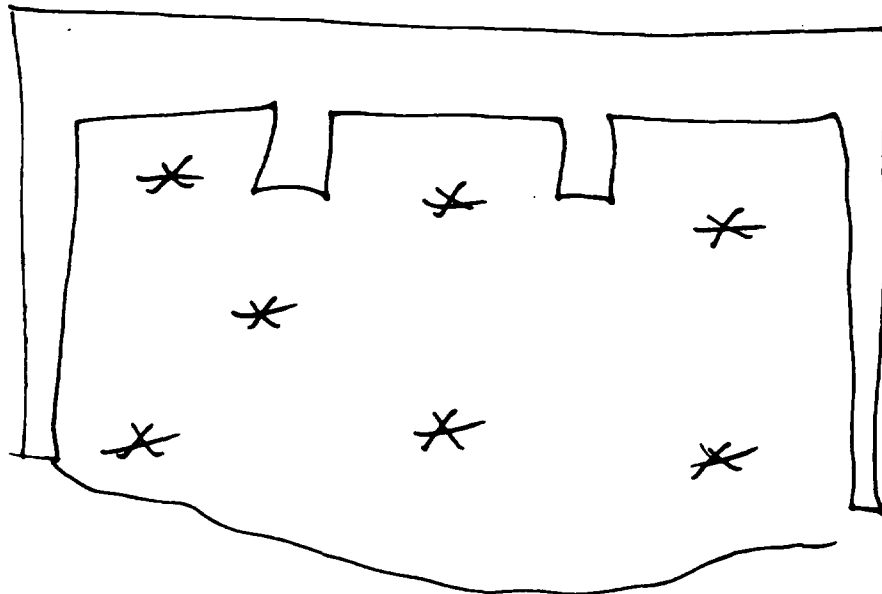
Height 10-12'

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____	DEPT _____	DATE _____	APPROVED BY _____ DEPT _____ DATE _____
MATH CHECK BY _____	DEPT _____	DATE _____	
METHOD REV. BY _____	DEPT _____	DATE _____	

Pile D



Front

Depth Avg 2-3 ft
 max 5 ft

Height ~ 8'